

Appl. No. 10/579,088

Amdt. dated March 25, 2010

Reply to Notice of Non-Compliant of March 22, 2010

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1-12. (Cancelled)

13. (Amended) A powdered pharmaceutical composition comprising a functional alpha I-antitrypsin (AAT), a stabilizing carbohydrate, a surfactant and an antioxidant. The composition of claim 3, wherein the AAT, carbohydrate, surfactant and antioxidant are present in amounts such that if the powder composition is solubilized in aqueous solution for administration to a patient the AAT concentration is 1-100 mg/ml, the carbohydrate concentration is 1-5% (w/v), the surfactant concentration is 0.01-0.5% (w/v), and the antioxidant concentration is 1-10 mM.

14. (Original) The composition of claim 13, wherein the AAT concentration is 10-50 mg/ml.

15. (Amended) A liquid pharmaceutical composition comprising a functional alpha I-antitrypsin (AAT), a stabilizing carbohydrate, a surfactant and an antioxidant, wherein the AAT concentration is 1-100 mg/ml, the carbohydrate concentration is 1-5% (w/v), the surfactant concentration is 0.01-0.5% (w/v), and the antioxidant concentration is 1-10 mM.

16. (Original) The composition of claim 15, wherein the AAT concentration is 10-50 mg/ml.

17. (Amended) The composition of claim 313, further comprising a buffer and wherein (a) the carbohydrate is trehalose and the antioxidant is methionine; and (b) the AAT, trehalose, surfactant and methionine are present in amounts such that if the powder is solubilized in aqueous solution for administration to a patient (i) the AAT concentration is 10-50 mg/ml, (ii) the trehalose concentration is 10-50 mg/ml, (iii) the surfactant concentration is 0.01-0.5% (w/v), and (iv) the methionine concentration is 1-10 mM.

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18. (Amended) The composition of claim 415, further comprising a buffer and wherein(a) the AAT concentration is 10-50 mg/ml;(b) the carbohydrate is trehalose and its concentration is 10-50 mg/ml;(c) the surfactant concentration is 0.01-0.5% (w/v); and(d) the antioxidant is methionine and its concentration is 1-10 mM.

19-27. (Cancelled)

28. (Amended) The composition of claim 413 or 15, wherein the AAT is a native AAT.

29. (Amended) The composition of claim 413 or 15, wherein the AAT is a recombinant AAT.

30. (Amended) The composition of claim 413 or 15, wherein the AAT is an AAT variant.

31. (Amended) The composition of claim 413 or 15, wherein the AAT is glycosylated.

32. (Amended) The composition of claim 413 or 15, wherein the AAT is unglycosylated.

33-68. (Canceled)

69. (New) The composition of claim 13 or 15, wherein the stabilizing carbohydrate is selected from the group consisting of lactose, sucrose, trehalose, raffinose, maltodextrin and mannitol.

70. (New) The composition of claim 69, wherein the stabilizing carbohydrate is trehalose.

71. (New) The composition of claim 13 or 15, wherein the antioxidant is selected from the group consisting of methionine, glutathione, cysteine, ascorbic acid and N-acetyl cysteine.